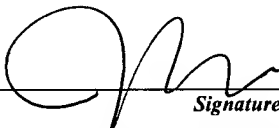
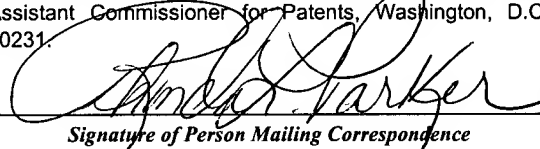


2834 2100

AMENDMENT TRANSMITTAL LETTER (Large Entity)				Docket No. 04452/015001	
Applicant(s): Yoshinori ITO					
Serial No. 09/912,938	Filing Date July 25, 2001	Examiner		Group Art Unit	
Invention: ABSOLUTE POSITION DETECTING DEVICE FOR A LINEAR ACTUATOR					
<u>TO THE ASSISTANT COMMISSIONER FOR PATENTS:</u>				RECEIVED JAN 30 2002 Technology Center 2600	
Transmitted herewith is an amendment in the above-identified application.					
The fee has been calculated and is transmitted as shown below.					
CLAIMS AS AMENDED					
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	2 -	20 =	0 x	\$18.00	\$0.00
INDEP. CLAIMS	1 -	3 =	0 x	\$84.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$0.00
<div><input checked="" type="checkbox"/> No additional fee is required for amendment.</div> <div><input type="checkbox"/> Please charge Deposit Account No. _____ in the amount of _____ A duplicate copy of this sheet is enclosed.</div> <div><input type="checkbox"/> A check in the amount of _____ to cover the filing fee is enclosed.</div> <div><input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-0591 A duplicate copy of this sheet is enclosed.</div> <div><input checked="" type="checkbox"/> Any additional filing fees required under 37 C.F.R. 1.16.</div> <div><input type="checkbox"/> Any patent application processing fees under 37 CFR 1.17.</div>					
<div> Signature</div> <div>Jonathan P. Osha, Reg. No. 33,986 Rosenthal & Osha L.L.P. 1221 McKinney, Suite 2800 Houston, Texas 77010</div> <div>Telephone: (713) 228-8600 Facsimile: (713) 228-8778</div>			<div>Dated: 12/6/01</div> <div><div><div>I certify that this document and fee is being deposited on <u>12-12-01</u> with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.</div><div> Signature of Person Mailing Correspondence</div><div>Rhonda L. Parker Typed or Printed Name of Person Mailing Correspondence</div></div></div>		
<div>CC:</div> <div style="text-align: right;">P11LARGE/REV06</div>					



PRELIMINARY AMENDMENT
ATTORNEY DOCKET NO.: 04452/015001

#5
Pre Amended
2:16:02
RM

RECEIVED
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JAN 31 2002

APPLICANT: Yoshinori ITO

SERIAL NO: 09/912,938

FILED: July 25, 2001

TITLE: Absolute Position Detecting Device for a Linear Actuator

TC 2600 MAIL ROOM
ART UNIT:
EXAMINER:

U.S. Patent and Trademark Office
P. O. Box 2327
Arlington, VA 22202

PRELIMINARY AMENDMENT

Dear Sir:

Before examining the referenced application on the merits, please amend the application as outlined below:

IN THE SPECIFICATION

Please amend the Specification as follows. A marked-up copy of the amended portions of the Specification are provided in Appendix B:

Please replace paragraph 5 located at page 4, line 39 through page 5, line 9 with the following:

Q1 (Amended) With each rotation of the motor 2, the actuator output shaft 3 is moved linearly in the axial direction by an amount that is in accordance with the lead pitch of the ball-screw 41. Here, the combination of signal A and signal B will be examined. If L_p is the amount by which the output shaft 3 is moved per rotation of the motor and S_p is the detection pitch (one linear-stroke pitch) as detected by the linear absolute sensor, and $L_p \neq S_p$, then, if signals A and B are combined, even if the output shaft 3 moves within the space of the movement interval until $aL_p = bS_p$ (where a and b are arbitrary coefficients), at no point of the movement is the combination of the signals A and B the same. Therefore, provided that the values of coefficients a and b are sufficiently large, it is possible to realize a linear absolute sensor that, based on the combination